

**Axillary Artery Branches, Veins, & Supplies:**

1. Superior Thoracic Artery (medial to Pec. Minor)
   1. Pectoral Muscles
   2. Thoracic Wall
   3. Serratus Anterior
2. Thoraco-acromaial artery (Posterior to Pec. Minor)
   1. Deltoid Branch
   2. Pectoral Branch
   3. Acromial Branch
   4. Clavicular Branch
3. Lateral Thoracic Artery (75% of ppl) (Posterior to Pec. Minor)
   1. If not there thoracodorsal artery supplies thoracic wall
   2. Will course with Long Thoracic Nerve
   3. Supplies
      1. Mammary tissue, Serratus anterior, & Pectoralis Minor
4. Subscapular Artery (Lateral to Pec. Minor)
   1. Circumflex Scapular Artery
      1. Teres minor, Infraspinatus, & Posterior Scapula
   2. Thoracodorsal Artery
      1. Latissimus Dorsi
      2. Serratus Anterior
   3. Other branches
      1. Subscapularis
5. Posterior Circumflex Humoral Artery (Lateral to Pec. Minor)
   1. Larger
   2. Deltoids & Triceps
6. Anterior Circumflex Humoral Artery (Lateral to Pec. Minor)
   1. Smaller
   2. Deltoids & Triceps
7. Basilic Vein
   1. Joins with Axillary
8. Cephalic Vein
   1. Travels through clavipectoral triangle
   2. Joins with Axillary
9. Deep Veins
   1. Paired
   2. Brachial, Radial, Ulnar

**Other Structures:**

1. Prevertebral fascia
   1. Originates from near trunks of plexus
   2. Travels through Anterior & Middle Scalene muscles
   3. Holds Axillary Sheath
2. Lymph Nodes (75% drainage of breast)
   1. Humeral
   2. Subscapular
   3. Pectoral
   4. Central
   5. Apical
3. Spaces
   1. Quadrangular Space
      1. Borders
         1. Teres minor (superior)
         2. Teres major (inferior)
         3. Long head of Triceps (Medial)
         4. Humerus (lateral)
      2. Vessels & nerves traveling through
         1. Posterior Circumflex of Humerus
         2. Axillary Nerve
   2. Triangular space
      1. Borders
         1. Teres Major
         2. Teres Minor
         3. Long head of triceps
      2. Vessels & Nerves traveling through
         1. Circumflex scapular artery
   3. Triceps Hiatus
      1. Borders
         1. Teres major
         2. Long head of triceps
         3. Lateral Head of triceps
      2. Vessels & Nerves traveling through
         1. Radial Nerve
         2. Profunda of brachii Artery
4. Suprascapular Nerve
   1. Goes under Superior Transverse Scapular ligament
   2. Suprascapular Artery and Vein go over ligament
5. Collateral Circulation of Shoulder
   1. Posterior Intercostals from thoracic aorta
   2. Subclavian Artery
      1. Suprascapular Artery
      2. Dorsal Scapular
   3. Circumflex Scapular off Subscapular Artery

**Dermatomes & Cutaneous Distribution (\*\* Main Nerve)**

1. C3 & C4
   1. Surface Region
      1. Base of neck
   2. Nerve
      1. \*\*Supraclavicular
2. C5
   1. Surface Region
      1. Deltoid
   2. Nerve
      1. \*\*Superior Lateral Cutaneous (From Musculocutaneous)
3. C6
   1. Surface Region
      1. Middle Lateral Arm to Tip of Thumb
   2. Nerves
      1. \*\*Lateral Cutaneous of Forearm (from Musculocutaneous)
      2. Superficial Radial (Dorsal side)
      3. \*\*Palmar Cutaneous Branch of Median (tip of thumb)
4. C7
   1. Surface Region
      1. Pointer, Middle, & ½ Ring Finger
   2. Nerve
      1. \*\*Palmar Cutaneous Branch of Median
      2. Superficial Branch of Radial (Dorsal Side)
5. C8
   1. Surface Region
      1. Pinky & half of ring finger
   2. Nerve
      1. Superficial (Dorsal side) & Palmar Branch of Ulnar
6. T1
   1. Surface Region
      1. Wrist to Superior Medial Arm
   2. Nerve
      1. Medial Cutaneous of Arm & Forearm
7. T2
   1. Surface Region
      1. Superior Medial Arm & Axilla
   2. Nerve
      1. Medial Cutaneous of Arm & Intercostobrachial
8. Radial Nerve
   1. Exclusive = 1st Dorsal Lumbrical region on Dorsal side of hand (C6)
9. Median Nerve
   1. Tip of Index finger (C7)
10. Ulnar nerve
    1. Tip of pinky (C8)